

SPECIFICATIONS AND PERFORMANCE



2 PIPE CHILLED WATER FAN COIL

Nominal Capacities: 9000, 12000, 15000, 18000, 24000, 30000 Btuh

PRODUCT DESCRIPTION

The WCP is a contemporary design, chilled water air handler that combines attractive appearance in any decor, with the highly efficient conditioning of small to mid size commercial or residential spaces. Equipped with unit mounted infrared compatible controls, optional hand held remote also available.

Units provide up to a nominal 30,000 Btuh of cooling. Electric heat options are available for up to 5KW of supplemental heat. It can be paired with a matching capacity chilled water supply. This all American made unit offers ease of installation, operation and service.

AIR HANDLER STANDARD FEATURES

▲ Factory Installed Controls/Components:

- Relays and connections for chilled water supply
- Unit mounted digital controls as standard:
 - Large 3/4" LCD display
 - Anti-short cycle protection
 - Fan purge (fan remains on for 60 seconds after heat/cool call dropped for improved efficiency)
- Auto/high/low fan operation
- Low Volt transformer

NOTE: Auto fan operation automatically selects fan speed according to heating or cooling demand. Constant fan operation is manually selected high or low speed.

WCP HIGH WALL AIR HANDLER

P/N# 240003248 Rev. A [06/08]

▲ Materials of Construction:

- Cabinet (available in designer white with grey discharge vanes) fabricated of cold roll steel with structural stiffeners
- Air inlet panel made from high impact polystyrene with perforated steel grille
- Discharge grille constructed of high temperature Noryl
- Condensate drain pan made from galvanized steel (G90U) with anti-corrosion coating

OPTIONAL EQUIPMENT

- Hand held infra-red remote controller (a separate hand held remote controller used to command the on-board controls).

NOTE: Unit mounted controls are fully functional without the remote controller.

- Field installed condensate pump
- 24V remote thermostat with controls & relays
- Chilled water control valve (N/C 24V ac, 20VA max. or 8 VA max. on units with condensate pumps)
- Electric heat with automatic reset high temperature cutout and redundant high temperature fuse link.

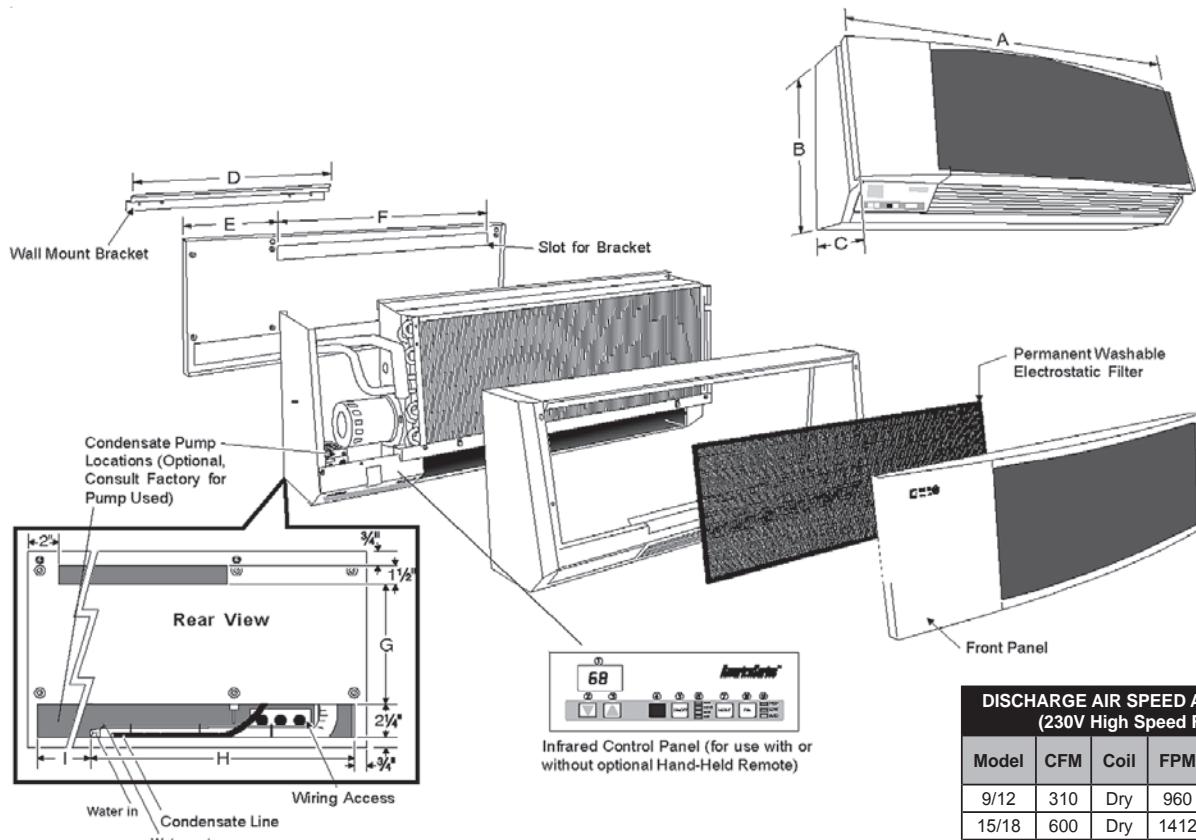
INSTALLER SUPPLIED ITEMS

- Power wiring & low voltage wiring
- Mounting screws and fasteners
- Chilled water & condensate piping

WCP CAPACITIES						
Model	Nominal Capacities	Total Capacity	Sensible Capacity	Fluid Temp.	Fluid Flow	PD Ft. H ₂ O
09/12	9,000	7,375	6,732	45	1	0.8
		10,801	8,272	45	2	3.8
		13,270	9,279	45	3	8.0
	12,000	8,387	7,189	40	1	0.8
		12,481	8,950	40	2	3.9
		15,643	10,304	40	3	8.1
15/18	15,000	15,624	13,477	45	2	4.4
		19,761	15,367	45	3	9.1
	18,000	17,724	14,379	40	2	4.5
		23,073	16,763	40	3	9.3
24/30	24,000	20,563	17,564	45	3	2.3
		29,031	21,178	45	6	8.3
		32,320	22,539	45	9	17.7
	30,000	23,600	18,887	40	3	2.4
		34,400	23,423	40	6	8.4
		38,790	25,351	40	9	17.9

WCP Dimensions and Specifications

NOTE: Due to EMI's ongoing development programs, design and specifications may change without notice.



DISCHARGE AIR SPEED AND FLOW (230V High Speed Fan)				
Model	CFM	Coil	FPM	Throw/Ft.
9/12	310	Dry	960	16
15/18	600	Dry	1412	26
24/30	750	Dry	1400	25
36	750	Dry	1400	25

WCP PHYSICAL DIMENSIONS

Model	Width "A"	Height "B"	Depth "C"	Width "D"	Width "E"	Width "F"	Width "G"	Width "H"	Width "I"	Shipping Wt.
09/12	36½"	14½"	10¾"	32"	9"	24½"	8"	18"	16"	85
15/18	47½"	14½"	10¾"	32"	10"	34½"	8"	18"	27"	115
24/30	57½"	14½"	10¾"	42"	10"	44½"	8"	27"	28"	115
36	57½"	17"	11¼"	42"	10"	44½"	10½"	25"	28½"	115

WCP ELECTRICAL SPECIFICATIONS

Model #	Volts/HZ/Phase	Fan		Total Amps	Min. Volt	Min. Ampacity (1)	Max Fuse (1)
		FLA	HP				
09A, 12A	115/60/1	0.64	0.03	0.64	104	0.8	15
09D, 12D	208/230/60/1	0.34	0.02	0.34	197	0.43	15
15A, 18A	115/60/1	1.2	0.083	1.2	104	1.5	15
15D, 18D	208/230/60/1	0.56	0.07	0.56	197	0.7	15
24A, 30A	115/60/1	1.2	0.083	1.2	104	1.5	15
24D, 30D	208/230/60/1	0.56	0.07	0.56	197	0.7	15

(1) If electric heaters are installed, use Min Amp and Max Fuse from Heater Options Chart.

WCP ELECTRIC HEAT OPTIONS

Model	Voltage	KW	Heater Amps	Total Amps	Min. Cir. Amps	Max Fuse
9/12	230	3	13.1	13.5	16.8	20
15/18	230	3	13.1	13.6	17	20
24/30	230	5	21.7	22.3	27.9	30
36	230	5	21.7	22.3	27.9	30

WCP OBSERVED SOUND VALUES (230V High Speed Fan)

Model	DbA
9/12	48
15/18	51
24/30	54
36	54

CONNECTIONS

WCP

Chilled Line Size	Drain Size
1/2" I.D.	1/2" I.D.
5/8" I.D.	1/2" I.D.
5/8" I.D.	1/2" I.D.
3/4" I.D.	1/2" I.D.



WCP Chilled Water Air Handler



Comfort Where It Counts.

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